

SOLOMESHCH, I.A. (Petrozavodsk)

Eigenvalues of certain degenerating elliptic equations. Mat.
sbor. 54 no.3:295-310 J1 '61. (MIRA 14:8)
(Eigenvalues) (Differential equations)

SOLOMESHCH, I.A.

Asymptotic behavior of the eigenvalues of bilinear forms related
to some elliptic equations which degenerate at the boundary.
Dokl.AN SSSR 144 no.4:727-729 Je '62. (MIRA 15:5)

1. Predstavleno akademikom V.I.Smirnovym.
(Differential equations) (Forms, Bilinear)

L 43734-65 EWT(d) IJP(c)

ACCESSION NR: AR5009480

S/0124/65/000/003/A010/A010

SOURCE: Ref. zh. Mekhanika, Abs. 3A81

AUTHOR: Mosyagin, V.V.; Solomeshch, M.A.

TITLE: The dynamics of rectilinear motion of a variable mass point

CITED SOURCE: Uch. zap. Petrozavodskogo un-ta, v. 11, no. 5, 1963 (1964), 56-59

TOPIC TAGS: variable mass point, rectilinear motion calculation, Meshcherskiy
equation

TRANSLATION: A relativistic generalization of Meshcherskiy's equation

$$a^2 M \frac{dV}{dt} = -v_r \frac{dM}{dt} a + F \quad (1)$$

where $a = [1 - (v^2/c^2)]^{-1/2}$ and F is the external force was derived for the rectilinear motion of a variable mass point. The author considers special cases, in which the equations are reduced to the quadratures:

(2)

$$F = M a f(x), \quad M = M_0 e^{-at}, \quad F = M \varphi(v), \quad \varphi(v) < 0,$$

M. I. Yefimov.

Card 1/2

L 43734-65

ACCESSION NR: AR5009480

SUB CODE: ME

ENCL: 00

llc
Card 2/2

L 57503-65 EWT(d)/EWP(w)/EWA(d) EM

ACCESSION NR: AP5014096

UR/0055/65/000/003/0070/0076

539.3

AUTHOR: Solomeshch, M. A.

TITLE: An inequality in plastic flow theory 16

SOURCE: Moscow. Universitet. Vestnik. Seriya 1. Matematika, mekhanika, no. 3, 1965, 70-76

TOPIC TAGS: plasticity

ABSTRACT: The author shows that for a flow law which is associative with the von Mises load function, the inequality expressing D. C. Drucker's postulate is a result of this law if the tangent modulus is nonincreasing. Let $h(T)$ be the strengthening function. Theorem: If on each of the given load paths $\sigma_{ij}(t)$ and $\dot{\sigma}_{ij}(t)$ the number of passages from elastic deformation to plastic is finite and strengthening is such that there exists a continuous derivative

$$\frac{d}{dT} Th(T) > 0, \quad (1)$$

then the inequality

$$\int_0^T |\sigma_{ij}(t) - \dot{\sigma}_{ij}(t)| |\dot{\sigma}_{ij}(t) - \ddot{\sigma}_{ij}(t)| dt > 0 \quad (2)$$

Card 1/2

L 57503-65

ACCESSION NR: AP5014096

holds for any $t^* \geq 0$. He gives an example of non-satisfaction of this postulate with increasing tangent modulus. Orig. art. has 3 figures and 15 formulas.

ASSOCIATION: Kafedra teorii uprugosti, Moskovskiy gosudarstvennyy universitet
(Department of Elasticity Theory, Moscow State University)

SUBMITTED: 05Jun64

ENCL: 00

SUB CODE: AS, MA

NO REF SCV: 004

OTHER: 000

112
Card 2/2

SOLOMIKIN, O.P. [Solomykin, O.P.]; ARAV, Ya.I.

The improved "Khersonets" harvester. Mekh. sil'. hosp. 13 no.8:4-5
Ag '62. (MIRA 15:7)

1. Glavnyy konstruktor Khersonskogo kombaynovogo zavoda im. Petrovskogo (for Solomikin).
 2. Nachal'nik spetsial'nogo konstruktorskogo byuro Khersonskogo kombaynovogo zavoda im. Petrovskogo (for Arav).
- (Harvesting machinery) (Corn (Maize))

SOLOMIN, A.F., inzhener.

Mechanized unloading of side-loading trucks in the Saratov Road
Machinery Station No.43. Avt.der.18 no.7:14 N '55. (MLRA 9:4)
(Saratov--Loading and unloading)

SOLOMIN, A.F., inzhener.

Efficient method for using scrapers and graders together. Avt.
dor. 19 no.1:24 Ja '56. (MLRA 9:5)
(Road machinery)

SOLOMIN, A.F., inzhener.

Soil-gravel mix. Avt.dor.19 no.3:28 Mr '56. (MIRA 9:7)
(Read materials)

SOLOMIN, A.F., inzhener.

~~Improve the organizational structure of read machinery stations.~~
Avt.der.19 no.8:27-28 Ag '56. (MIRA 9:10)
(Read machinery)

SOLOMIN, Anatoly Fedorovich; PETROV-SEMICHEV, Yu.A., redaktor; KOGAN, F.L.,
tekhnicheskii redaktor

[Work practices of the Saratov road machinery station] Opyt raboty
Saratovskoi mashinodorozhnoi stantsii. Moskva, Nauchno-tekhn.izd-
vo avtotransp.lit-ry. 1957. 56 p. (MLRA 10:9)
(Saratov region—Road construction)

~~SOLOMIN, A.P.~~
ORYUNBERG, Aleksandr Ivanovich; ~~SOLOMIN, Anatoliy Fedorovich~~; MALINOVSKIY,
I.I., red.; MAL'KOVA, N.V., tekhn.red.

[[Economic accountability in road machinery stations] Khoziaistven-
nyi raschet mashinodorozhnoi stantsii. Moskva, Nauchno-tekhn.izd-
vo avtotransp. lit-ry, 1957. 90 p. (MIRA 11:4)
(Road construction--Accounting)

DMITRIYEV, A.D.; SOLOMIN, A.F.; MESHCHERYAKOV, L.I.

Moving a frame-type reinforced concrete bridge. Avt. dor. 21
no.2:14 F '58. (MIRA 11:2)

(Bridges, Concrete)

SOLOMIN, A.F.

Unloading device mounted on the DT-54 tractor. Avt. dor. 21 no.2:25
(MIRA 11:2)

F '58.

(Loading and unloading)

BURLAY, P.F.; GENRITSY, G.Ye.; SOLOMIN, A.F.; SLAVUTSKIY, A.K.,
kand. tekhn. nauk, retsenzent; ANDRYEV, O.V., kand.
tekhn. nauk, retsenzent; ALEKSEYEV, A.P., inzh., red.

[Reference book for workers in the construction of rural
roads] Spravochnoe posobie stroitel'nykh sel'skikh dorog.
Moskva, Izd-vo "Transport," 1964. 331 p.
(MIRA 17:5)

GALKIN, Mikhail Fedorovich; SOLOV'IN, Anatoliy Nikolayevich; SANDOMIRSKIY, Mark Moiseyevich; SHAKHOV, Mikhail Alekseyevich; ZHERMUNSKAYA, L.B., inzh., red.; FREGER, D.P., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Nickel-free 5KhGV steel for forging dies] Beznikelevaia stal'
5KhGV dlia shtampov pri goriachei shtampovke. Leningrad, 1961.
14 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen
peredovym opytom. Seriya: Metallovedenie i termicheskaiia ob-
rabotka, no.7) (MIRA 14:12)
(Steel alloys--Testing) (Dies (Metalworking))

SHCHERBAKOV, K.F., kand.tekhn.nauk; SOLOMIN, A.N., aspirant

Problems of threshing sunflowers and deseeding castor-oil plants.

Trakt. 1 : sel'khoz mash. no.11:15-17 N '64.

(MIRA 18:1)

1. Rostovskiy institut sel'skokhozyaystvennogo mashinostroyeniya.

SOLOMIN, A.N.

Studying the process of the feeding of the plant mass to rotary receiving
units. Trakt. 1 sel'khoz mash. no. 7, 24-25 J1 '65. (MIRA 18:7)

1. Rostovskiy institut sel'skokhozyaystvennogo mashinostroyeniya.

SOLOMIN, A. N.

SOLOMIN, A. N.

Treatment of snake bite with novocaine block and oil balsam antiseptics. Trudy AMN SSER 24 no.2:63-66 '53. (MLRA 7:7)

(SNAKE BITES, therapy,

*procaine nerve block with oil balsam antiseptics)

(PROCAINE, therapeutic use,

*snake bites, nerve block with oil balsam antiseptics)

(ANESTHESIA, REGIONAL, in various diseases,

*nerve block, procaine, in snake bite, with oil balsam antiseptics)

SOLOMIN, A.N.

Giant anal papilloma. Khirurgia no.8:75-76 Ag '54. (MLRA 7:11)

(PAPILLOMA,

anus. giant)

(ANUS, neoplasms,

papilloma, giant)

DEGTYAREV, P.D.; SOLOMIN, A.N. (Rostov-na-Donu)

Transthoracic approach to the upper thoracic sympathetic ganglia.
Vop, neirokhir. 21 no.6:43-44 N-D '57. (MIRA 11:2)
(NERVOUS SYSTEM, SYMPATHETIC--SURGERY)
(CHEST--SURGERY)

~~SOLOVIL, A. N.~~ (Rostov-na-Donu)

Treatment of nerve trunks in amputation. Eksp. khir. 3 no.6:50 N-D '58.
(NERVES--SURGERY) (AMPUTATION) (MIRA 12:1)

SOLOMIN, A.N., kand.med.nauk

Treatment of phantom pains with intravenous novocaine. Sov.med.
22 no.3:119-123 Mr '58. (MIRA 11:4)

(PHANTOM LIMB,

pain, ther., procaine, intravenous admin. (Rus))

(PROCAINE, ther. use

pain in panthom limb, intravenous admin. (Rus))

SOLOMIN, A.N., kand.med.nauk, (Rostov-na-Donu)

Penetrating knife wound of the skull and brain. Kaz.med.zhur.
no.3:90 My-Je '63. (MLA 16:9)
(SKULL--WOUNDS AND INJURIES)
(BRAIN--WOUNDS AND INJURIES)

... ..

Use of a prosthesis prepared from AKH-7 plastic for replacement
of a complicated defect of the anterior paranasal sections of
the skull. Vop. neirokhir. 28 no.6347 No. 164.

(MIRA 18:4)

SOLOMIN, A.N., podpolkovnik meditsinskoy sluzhby, kand. med. nauk

Rare case of combined injury to the anterior parabasal regions of the skull and brain. Voen.-med. zhur. no.6:60-61 '64. (MIRA 18:5)

SOLOMIN, N.V., doktor tekhn. nauk; SOLOMIN, A.N.

Inelastic deformation of glass and ceramic products under their
own weight during annealing. Stek. i ker. 22 no.8:19-21 Ag '65.
(MIRA 18:9)

1. A. S. SOLCHIN

2. USSR (600)

4. Bee Culture

7. Good method of observing how bees are wintering. Pchelovodstvo 29 no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

Br. Lib.

81-4 Glass, Ceramics

New glass-ceramic refractories. A. V. Sokolov (Sov. Kevm. Prom., 1947, No. 4, 20; Sov. Ceram. Abs., 1948, 136a).—The refractory is made of glass-bonded corundum and thermite corundum. The rate of corrosion by alkali sulphates falls as the % of Al_2O_3 in the corundum rises. A test, in which specimens of the corundum and fireclay were melted in a crucible containing molten glass, showed that the resistance of the corundum to glass was 7-8 times > that of the fireclay.

R. B. CLARK.

Sci. USHY, D.V., professor; GOLUBOV, F.G.; SOLOMIN, I.V.

Hydrogenation of cottonseed oil with Cu-M catalyst in a carrying agent. Masl.-zhir. prom. 17 no. 6:6-9 Aug '51. (MIRA 1951)

1. Kazanskii gosudarstvennyy universitet imeni S. Mirova.
(Cottonseed oil) (hydrogenation)

NAZARENKO, M.F.; SVIRIDENKO, V.A.; SOLOMIN, A.V.

Use of the PMT-3 microdurometer to determine the caking ability
of ceramic bodies. Izv.AN Kazakh. SSR Ser.gor.dela, met. i stroimat.
no.2:30-33 '54. (MIRA 9:6)
(Ceramic materials--Testing) (Hardness)

SOLOMIN, A. V.

SOLOMIN, A. V.- "On the intermediate stages in vapor-phase oxidation of monoalkyl benzenes on lead vanadate". Alma-Ata, 1955. Acad Sci Kazakh S.S.R., Inst of Chemical Sciences. (Dissertation for the Degree of Candidate of Chemical Sciences,)

SD: Knizhnaya literatura No. 46, 12 November 1955. Moscow

Solomin, A. V.

Oxidation of organic compounds. XII. Intermediate stages of catalytic oxidation of some monoalkylbenzenes in gas phase. S. R. Rankov, B. V. Savvov, and A. V. Solomin. Kemicheskoe Oksidirovanie i Oksidatsiya ~~Usp. Khim.~~ S.S.R., Izv. Akad. Nauk, 1955, 241-51; cf. C.A. 50, 14322c. Yield-temp. curves for various products of oxidation of alkylbenzenes are shown for air oxidation in the presence of mild V catalysts at 300-450° with 0.3-0.4 sec. contact time. MePh, EtPh and cumene were examined. The possible schemes of stepwise oxidation are shown. The possible oxidation products: AcPh, BzCHO, BzH, BzOH, C₆H₅, PhOH, benzoquinone, and maleic anhydride were also subjected to oxidation. BzOH, maleic anhydride and quinone were found to be substantially stable. At temp. under 350° almost the only products are those of incomplete oxidation; at higher temp. these products decline in concn.; above 350° the oxidation is complete.

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3/1/77
RAFIKOV, S.T.; SUVOROV, B.V.; SOLOMIN, A.V.

Oxidation of organic compounds. Report No.14: Intermediate stages of incomplete oxidation of benzene in the vapor phase in the presence of tin vanadate. Izv.AN Kazakh.S.S.R.Ser.khim. no.1:58-66 '57. (MLRA 10:5)
(Oxidation) (Benzene) (Tin vanadate)

AUTHORS	Kazakova, N.D., Solomin, A.V. Gutsalyuk, V.G.	32-8-49/61
TITLE	<p>A Device for the Determination of the Paraffin Content in Mineral Oil and in Mineral Oil Products. (Pribor dlya opredeleniya parafinov v neftyakh i nefteproduktakh.)</p>	
PERIODICAL	<p>Zavodskaya Laboratoriya 1957, Vol. 23, Nr 8, pp.996-996 (USSR)</p>	
ABSTRACT	<p>The device described in this paper serves the purpose of the quantitative determination of solid paraffin hydrocarbons which are separated by freezing out. The device consists of a molybdenum glass container of about 500 ml content. The container is conically shaped (towards its bottom) and has an opening at the bottom which is firmly sealed by means of a stopper made out of the same type of glass. This stopper is provided with a handle which extends throughout the entire container right to the top and to the outside. The container is placed upon a funnel adapted for this purpose which has a filter and is firmly mounted on the bottom of the cooling vessel. The mineral oil or mineral oil product to be investigated is poured into the vessel and is exposed to freezing temperature.</p>	
CARD 1/2		

32-8-49/61
1 Device for the Determination of the Paraffin Content in Mineral Oil
and in Mineral Oil Products.

By pulling out the stoppe (by the handle) the bottom of the container is opened and the liquid passes through the funnel into the collecting vessel, which is located below the bottom of the cooling vessel. The frozen particles are held back by the filter. By washing out the container also such particles as still adhere to the walls are directed into the filter, and the whole system is cleaned. The collecting vessel below the cooling vessel is then exchanged and the funnel is washed out with hot benzol. In this way the particles frozen in on the filter are liberated and are led into the benzol solution in the exchanged collecting vessel. By destillation of the solution benzol is removed and the remaining paraffin is weighed. There is 1 figure and 1 table.

ASSOCIATION: Institute of the Academy of Sciences of the Kazakh SSR
(Institut khimicheskikh nauk Akademii nauk Kaz SSR)
AVAILABLE: Library of Congress.

CARD 2/2

PA - 3128

On vapor Phase Oxidation of Styrene and α -Methylstyrene on Tin Vanadate.

temperatures does not surpass 1.25 mol per mol of the oxidized carbon. This points to the fact that the low-molecular-products chiefly occur at the cost of the burning away of the lateral groups. The results obtained give rise to the assumption that the oxidation of the styrene and the α -methylstyrene in the vapour phase with tin vanadate in the primary phases takes place in the same direction as the oxidation in the condensation-phase with or without catalyzers. In the case of styrene a thermal decay with formation of benzaldehyde and formaldehyde is probable, and in the case of methylstyrene a thermal decay with formation of acetophenone and formaldehyde. Experimental results confirm this assumption. At higher temperatures no acetophenone or benzaldehyde could be detected in the reaction-products.

(2 tables and 3 citations from Slavic publications.)

ASSOCIATION: Institute for Chemical Science of the Academy of Science of the Kasakstan SSR.

PRESENTED BY: Arbuzov B.A., 3.10. 1956.

SUBMITTED: 29.9. 1956.

AVAILABLE: Library of Congress.

CARD 2/2

SOLOMIN, A. V.
AUTHORS: Solomin, A. V., Suvorov, B. V., Rafikov, S.R. 79-1-20/53
TITLE: The Oxidation of Organic Compounds (Okisleniye organicheskikh soyedineniy). XV. On the Oxidation of Ethyl Benzene in the Vapor-Phase State Over Tin Vanadate (XV. O parofaznom okislenii etilbenzola na vanadate olova).
PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 1, pp. 133-138 (USSR).
ABSTRACT: The oxidation of alkyl benzenes with a secondary α -carbon atom in the vapor-phase state had not been sufficiently investigated. Only one paper had been published on this subject in which it is pointed out that on passage of ethylbenzene vapors in a mixture with air only benzoic acid is formed. The yield at 270-280° C amounted to 4%. The aim of the present paper was an exact investigation of the fundamental rules governing this reaction, special attention in the oxidation being paid to the intermediate and final products. Some of the intermediate products were oxidized under equal conditions. The obtained experimental results show that the vapor-phase oxidation of ethylbenzene with air takes a very complicated course and according to the prevailing conditions leads to

Card 2/3

The Oxidation of Organic Compounds. XV. On the Oxidation of
Ethyl Benzene in the Vapor-Phase State Over Tin Vanadate.

7-1-27/3

the formation of different oxygen-containing compounds. Thus the authors beside benzoic acid also found benzaldehyde, acetophenone, quinone, maleic anhydride, CO and CO₂ and quantitatively determined their amounts. The dependence of the yield of some of the enumerated reaction products on temperature is represented in diagram.1. A scheme of the fundamental direction of the vapor-phase oxidation of ethylbenzene over tin vanadate was suggested which is based on the data of the peroxide theory and on the theory of the radical-chain processes. The assumption was uttered that the oxidation of ethylbenzene might simultaneously proceed in several parallel directions, in main as well as in side directions. Each of those represents a multistage process of a gradual decomposition of the carbon skeleton, with a subsequent formation of a large number of by-products. The final stage of each of these directions consists of the formation of products of the completed oxidation. There are 5 figures and 12 references, 10 of which are Slavic.

ASSOCIATION:
Card 2/3

Institute for Chemical Sciences AN Kazakh SSR (Institut
khimicheskikh nauk Akademii nauk Kazakhskoy SSR).

The Oxidation of Organic Compounds. XV. On the Oxidation of
Ethyl Benzene in the Vapor-Phase State Over Tin Vanadate.

79-1-28/63

SUBMITTED: December 3, 1956
AVAILABLE: Library of Congress

Card 3/3

1. Chemistry 2. Organic compounds-Oxidation

MANUKOVSKAYA, L. G.; SOLOMIN, A. V.; SUVOROV, B. V.; RAFIKOV, S. R.

Continuous method of production of terephthalic acid by the
liquid phase oxidation of m-xylene. Neftekhimia 2 no.4:531-535
J1-Ag '62. (MIRA 15:10)

1. Kazakhskiy gosudarstvennyy sel'skokhozyaystvennyy institut
i Institut khimicheskikh nauk AN KazSSR, Alma-Ata.

(Terephthalic acid) (Xylene)

Monthly List of Russian Accessions, Library of Congress, December 1951.

Located in the Department of Manuscripts and Rare Books, 1050.

Monthly List of Russian Accessions, Library of Congress, December 1951. Unclassified.

W. K. K. K. K.

Some characteristics of the process of activation of the
circuits of nanoscale waveguide. AN SSSR No. 6 Ser. Tekh.
mak no. 4:30-33 1964. (M. 1964)

1. Institut radiofiziki i elektroniki Leningradskogo otdeleniya
AN SSSR, Novosibirsk.

ACCESSION NR: AP4040015

S/0288/64/000/001/0085/0088

AUTHOR: Solomin, B. A.

TITLE: Mercury-screened helical delay lines

SOURCE: AN SSSR. Sib. otd. Izv. Seriya tekhnicheskikh nauk, no. 1, 1964, 85-88

TOPIC TAGS: delay line, helical delay line, mercury screened delay line

ABSTRACT: In order to improve the frequency-phase characteristics of a helical delay line, it was prepared from an insulated wire and completely immersed in mercury. Thus, the theoretical equivalent of a short high-attenuation line with a predominantly frequency-type distortion was obtained. The upper frequency limit of a mercury-screened line (with a tolerable frequency distortion) is tentatively put at 500-1,000 mc, which is 3-5 times as wide as a nonscreened-helical-line band. "Thanks are due to Doctor of Physico-Mathematical Sciences R. V. Gostrem for his attention to this project." Orig. art. has: 1 figure and

Card 1/2

ACC NR: AP7001220

SOURCE CODE: UR/0141/66/009/006/.227/1229

AUTHOR: Solomin, B. A.

ORG: Scientific-Research Institute of Radiophysics, Gor'kiy University
(Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete)

TITLE: Transformation of video-pulse spectrum in switched-parameter lines

SOURCE: IVUZ. Radiofizika, v. 9, no. 6, 1966, 1227-1229

TOPIC TAGS: parametric converter, switched parameter line, signal
propagation

ABSTRACT: "Nonresonance" parametric transformation of video pulses
(shortening pulse time, increasing pulse height) described in M. Otyka's (13th
Symposium URSI, Holland, 1965) and H. Weinstein's (IEEE Trans., CT-12, 157,
1965) articles were experimentally verified by the author. In two distributed-
parameter lines, running capacitance or inductance was electronically (in

Card 1/2

UDC: 621.391.144

KRYUKOV, P.A.; SOLOMIN, G.A.

Method of measuring the oxidation-reduction potential of waters
and rocks. *Gidrokhim.mat.* 28:215-221 '59. (MIRA 12:9)

1. *Gidrokhimicheskiy institut Akademii nauk SSSR, g. Novocherkassk.*
(Oxidation-reduction reaction) (Water, Underground)
(Potentiometric analysis)

SOLOMIN, G.A.

Preliminary treatment of electrodes for measuring oxidation-reduction potentials. *Gidrokhim.* at. 28:222-229 '59.
(MIRA 12:9)

1. *Gidrokhimicheskiy institut Akademii nauk SSSR, g. Novocherkassk.*
(Electrodes, Platinum) (Polarization (Electricity))

SOLOMIN, G.A.

Nomogram for computing activity coefficients. Gidrokhim.mat. 28:
230-232 '59. (MIRA 12:9)

1. Gidrokhimicheskii institut Akademii nauk SSSR, g. Novocherkassk.
(Nomography (Mathematics)) (Water--Analysis)
(Ionization)

SOLOMIN, G. A. Cand Chem Sci — (uss) "Oxidation-Reduction State of Waters and Soils in the Region of Construction of the Stalingrad Hydroelectric Station," Novocherkassk, 1960, 16 pp, 200 copies (Hydrochemical Institute, AS USSR) (KL, 47/60, 98)

FESENKO, N.G. (Novocherkassk); SOLOMIN, G.A. (Novocherkassk)

Method for fast voluminal determination of Fe^{+++} , Fe^{++} , and Al^{+++}
in ferric and mixed coagulants. Vod. i san. tekhn. no. 1:16-17
Ja '61. (MIRA 14:9)

(Water--Purification)

KRYUKOV, P.A.; SOLOMIN, G.A.; GOREMYKIN, V.E.; TSYBA, N.P.; MANIKHIN, V.I.;
LEBEDEVA, Ye.M.

Oxidation-reduction state of waters and rocks in the region of
the construction site of Stalingrad Hydroelectric Power Station.
Gidrokhim. mat. 31:142-163 '61. (MIRA 14:3)

1. Gidrokhimicheskiy institut Akademii nauk SSSR, g. Novochoerkassk.
(Stalingrad Hydroelectric Power Station region—Water, Underground)
(Oxidation-reduction reaction) (Geochemistry)

SOLOMIN, G.A.

Apparatus for oxidation-reduction potential measurement in
sedimentary rocks. *Gidrokhim. mat.* 31:209-210 '61. (MIRA 14:3)

1. *Gidrokhimicheskiy institut Akademii nauk SSSR, g. Novocherkassk.*
(Rocks, Sedimentary—Analysis)(Oxidation-reduction reactions)
(Electrochemistry)

FORGARD, S.S., 1961, S.S.

Isopods from plutinized porcelain. Gidrokhim.mat, 36:169-171
1961. (MIR: 18:11)

L. Gidrokhimichaskiy institut, Novocherkassk. Submitted
November 18, 1961.

1. The first of the two main points of the document is that the
document is a summary of the findings of the investigation
conducted by the Joint Commission on the Assassination of President
John F. Kennedy in 1964. The document is a summary of the
findings of the investigation conducted by the Joint Commission
on the Assassination of President John F. Kennedy in 1964.

1. The second point of the document is that the document is a
summary of the findings of the investigation conducted by the
Joint Commission on the Assassination of President John F. Kennedy
in 1964.

1. The first of the two main groups of the
Soviet Union, the "Soviet Union" group,
is the "Soviet Union" group. The second group,
the "Soviet Union" group, is the "Soviet Union" group.

MININ, Gennadiy Anatol'yevich; FESHIKO, N.G., kand. khim. nauk,
otv. red.; DRAGUNOV, E.S., red.

[Methods for determining the redox potential and p^H of
sedimentary rocks] K metodike opredeleniia okislitel'no-
vosstanovitel'nogo potentsiala i p^H osadochnykh porod.
Moskva, Izd-vo "Nauka," 1964. 86 p. (MIRA 17:7)

SOLOMIN, G.I., aspirant

Materials for the maximum permissible concentration of dnyl in the
air. Gig. i san. 26 no.5:3-8 My '61. (MIRA 15:4)

1. Iz kafedry kommunal'noy gigiyeny TSentral'nogo instituta
usovershenstvovaniya vrachey.
(AIR---POLLUTION) (PHENYL ETHER---PHYSIOLOGICAL EFFECT)

SOLOMIN, G.I., aspirant

Hygienic evaluation of dinil as an air pollutant. Pred.dop.
kontsent.atmosf.zagr. no.6:146-164 '62. (MIRA 15:9)

1. Iz kafedry ^{Communal'noy gigiyeny} ~~Communal'noy~~ gigiyeny Tsentral'nogo instituta
usovershenstvovaniya vrachey.
(BIPHENYL--PHYSIOLOGICAL EFFECT) (AIR--POLLUTION)

General Summary of Hygienic Research

L 11374-67 LWT(1) SCTB DD/GD

ACC NR: AT6036499

SOURCE CODE: UR/0000/66/000/000/0066/0068

AUTHOR: Bizin, Yu. P.; Gorban', G. M.; Zinov'yev, V. M.; Pilipyuk, Z. I.;
Sidorov, K. K.; Solomin, G. I.; Shirskaya, V. A.; Yablochkin, V. D.

ORG: none

TITLE: Changes in several physiological indices of the organism in a gas medium
formed by polymer decomposition [Paper presented at the Conference on Problems of
Space Medicine held in Moscow from 24 to 27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy
kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii,
Moscow, 1966, 66-68

TOPIC TAGS: toxicology, polymer degradation, central nervous system, liver, closed
ecological system, air pollution

ABSTRACT: The combined effect on animal organisms of the chemical substances
formed by the degradation of some 14 polymers at temperatures in excess
of 40° C was studied in a 25-day experiment.

Analysis of air from the chamber containing 80 laboratory animals showed
the following: acrylonitrile, $2.8 \pm 1.7 \text{ mg/m}^3$; aldehydes, 0.02 ± 0.01
 mg/m^3 ; ammonia, $4.6 \pm 1.3 \text{ mg/m}^3$; acetone $1.07 \pm 0.6 \text{ mg/m}^3$; dibutylphtha-
late, $3.7 \pm 0.4 \text{ mg/m}^3$; sulphur dioxide, $1.77 \pm 0.8 \text{ mg/m}^3$; carbon monoxide.

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19.1 \pm 1.3 mg/m³; hydrocarbons, 600 \pm 218 mg/m³; hydrogen chloride, 2.46 \pm 1.2 mg/m³; epichlorhydrine, 0.33 \pm 0.08 mg/m³; ethyl acetate, 1.61 \pm 0.6 mg/m³; and ethylene glycol, 0.7 \pm 0.4 mg/m³.

Carbon dioxide content varied up to a maximum of 1%, oxygen content was 21%, and the relative humidity varied from 60 to 80%.

Blood studies conducted on the animals included erythrocyte count, leukocyte count, reticulocyte count, and hemoglobin determinations, as well as duration of bleeding, rate of coagulation, prothrombin time, thrombocyte count, and blood viscosity. Ability to synthesize hippuric from benzoic acid was taken as an index of the functional state of the liver.

In addition, observations were made of behavior and general conditions of the animals, dynamics of weight changes, tolerance to physical stress, and oxygen requirement. Relative weights of internal organs were determined.

The experimental animals were observed preceding, during, and for 14 days after the experiment.

Prolonged continuous exposure of the animals to the chemical substances liberated by the polymers produced nonspecific functional shifts.

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CNS effects included subcortical irritation and weakening of cortical subordination function. This resulted in intersection of extensor and flexor motor chronaxy curves, lowered susceptibility to brain stem hexanol narcosis, and increased tolerance to physical stress.

Peripheral blood studies showed increased erythrocyte, hemoglobin, and thrombocyte counts.

These CNS and peripheral blood shifts were unstable and nonspecific, and should be regarded as an adaptation reaction of the organism to the presence of gases released by polymer materials. This interpretation is supported by full restoration of the altered functions and indices to the initial state within 14 days after the end of the experiment.

It is concluded that the investigated polymers can be used in space cabins so long as the gases they liberate are scrubbed from the cabin air before they attain the maximum permissible concentration for small closed compartments. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: 00May66

Card 3/3

SOLOMIN, K.V., kand.tekhn.nauk.

Spiral separators. TSvet.net.27 no.3:12-16 My-Je '54. (MIRA 10:10)
(Ore dressing)

SOLOMIN, K.V.

✓ 6763 AERE-Lib/Trans-661

THE ENRICHMENT OF SANDS IN SPIRAL SEPARATORS.

K. V. Solomin. Translated by R. D. Lowde from Gornyi
Zhur., No. 6, 61-4(1935). 9p.

Results indicate that spiral separators are completely
successful for enrichment of sands holding scattered grains
of valuable minerals of specific gravity above 4. (auth)

SOLOMIN, K.V., kandidat tekhnicheskikh nauk; CHUGUNOV, A.D., gornyy
inzhener

Jigging machine and concentration table operation on the dredge.
Gor.zhur. no.9:42-46 S '55. (MLRA 8:8)
(Ore dressing)

SOLOMIN, Konstantin Vasil'yevich; TROITSKIY, A.V., retsenzent; VERIGO, K.N.,
redaktor; YEZDOKOVA, M.L., redaktor izdatel'stva; KARASEV, A.I.,
tekhnicheskiy redaktor

[Spiral concentrators] Vintovye separatory. Moskva, Gos. nauchno-
tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956.
103 p. (MLRA 9:10)

(Separators (Machines)) (Ore dressing)

BOLOMIN, K.V., kandidatekhnicheskikh nauk.

Use of ore concentrator-classifiers in hydraulic placer mining.

TSvet.net.29 no.1:30-34 Ja '56.

(MIRA 9:6)

(Hydraulic mining) (Ore dressing)

137-1958-1-101

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 16 (USSR)

AUTHOR: Solomin, K. V.

TITLE: Investigation of Placer Sands for the Purpose of Evolving a Technology for Concentration (Issledovaniye peskov rossypey dlya razrabotki tekhnologii obogashcheniya)

PERIODICAL: Kolyma, 1957, Nr 4, pp 20-23

ABSTRACT: A method of investigating placer sands (S) is described in detail. The investigations should follow the following procedure: study of the composition of the S and the type of ore; study of the susceptibility of the S to milling; formulation of efficient sand milling technology; development of optimal conditions for the operational cycle of the milling equipment. Engineering investigations of the S should begin during the preliminary prospecting. The decisive factors in the milling of sands are: the susceptibility of S to washing, their grain size, shape and the degree to which they have been rounded, as well as the shape and grain size of the ore particles, their specific gravity, and coefficient of friction, the susceptibility of the Au and Pt to amalgamation, their magnetic susceptibility and electrical

Card 1/2

137-1958-1-101

Investigation of Placer Sands (cont.)

conductivity, the composition of the minerals in the heavy fraction, and the quantity thereof in the S. Study of the composition of the sands and of their susceptibility to milling should be performed in the milling laboratories of geological prospecting expeditions. The detailed engineering investigations should be performed in scientific research institutes.

A. Sh.

1. Mining Engineering--USSR
2. Ores--Analysis
3. Mines--Evaluation

Card 2/2

SOLOMIN, K.V., kand.tekhn.nauk

SYM-1200 industrial screw separator. Gor.shur. no.8:
62-63 Ag '60. (MIRA 13:8)

1. Irgridmet, Irkutsk.
(Separators(Machines)) (Ore dressing)

SOLOKHIN, Konstantin Vasil'yevich; MELIK-Stepanova, A.G., otv. red.; ROMANOVA,
L.A., red. izd-va; SABITOV, A., tekhn. red.

[Processing mineral placer deposits] Obogashchenie peskov rossypanykh
mestorozhdenii poleznykh iskopaemykh. Moskva, Gos. nauchno-tekhn.
izd-vo lit-ry po gornomu delu, 1961. 398 p. (MIRA 14:11)
(Hydraulic mining) (Ore dressing)

TABLE 1 BOOK EXPLANATION 807/11/58

Valentinovskiy, I. (Editorial Board). *Engineering and Technology in the USSR*. Moscow: Higher Education Press, 1960. 542 p. 5,000 copies printed.

Bl. A.I. (Editorial Board). *Engineering and Technology in the USSR*. Moscow: Higher Education Press, 1960. 542 p. 5,000 copies printed.

Bl. A.I. (Editorial Board). *Engineering and Technology in the USSR*. Moscow: Higher Education Press, 1960. 542 p. 5,000 copies printed.

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Bl. A.I. (Editorial Board). *Engineering and Technology in the USSR*. Moscow: Higher Education Press, 1960. 542 p. 5,000 copies printed.

SECTION II. ENGINEERING TECHNOLOGY

Bl. A.I. (Editorial Board). *Engineering and Technology in the USSR*. Moscow: Higher Education Press, 1960. 542 p. 5,000 copies printed.

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Bl. A.I. (Editorial Board). *Engineering and Technology in the USSR*. Moscow: Higher Education Press, 1960. 542 p. 5,000 copies printed.

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Bl. A.I. (Editorial Board). *Engineering and Technology in the USSR*. Moscow: Higher Education Press, 1960. 542 p. 5,000 copies printed.

Bl. A.I. (Editorial Board). *Engineering and Technology in the USSR*. Moscow: Higher Education Press, 1960. 542 p. 5,000 copies printed.

SINYANSKIY, V.I.; SOLOMIN, L.Ia.; IONESCU, P.D. [Ionescu, P.D.]

Life of forsterite refractories in forge furnace hearths. Ogneupory 22
no.12:568-571 '57. (MIRA 12:3)

1. Nauchno-issledovatel'skiy metallurgicheskiy institut v Bukharesto
(for Sinyanskiy, Solomon). 2. Metallurgicheskiy zavod im. 23-go avgusta
Rumynskaya Narodnaya Respublika (for Ionescu).
(Rumania--Forging) (Refractory materials)

SECRET, M 1

27
Electropolishing of silver plate. M. I. Solomon, I. E.
Vudina, and V. M. Labadze. U.S.S.R. 110,419, Feb. 23,
1958. Ag plate is polished in KCN solns. using reversible
current at various c.d.s. during the cathodic and anodic pe-
riods. M. Hoch

// Distr: 4E2c/4E4j

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5
2

MATS, A.S., podpolkovnik meditsinskoy sluzhby; SOLOMIN, N.N., podpolkovnik
meditsinskoy sluzhby

Some observations in anicteric leptospirosis. Voen.-med.shur. no.6;
76-78 Je '51. (MIRA 9:9)
(LEPTOSPIROSIS)

UGRYUMOV, B.L., polkovnik meditsinskoy sluzhby: SOLOMIN, N.N., podpolkovnik
meditsinskoy sluzhby

Clinical and epidemiological characteristic of a natural reservoir
with two infections. Voen.-med. zhur. no.4:54-59 Ap '56. (MIRA 9:9)
(EPIDEMIOLOGY) (KIDNEYS--DISEASES)
(ENCEPHALITIS)

SOLOMIN, N.N., podpolkovnik meditsinskoy sluzhby

Etiology and epidemiology of infections nephroseonephritis in the
cis-Ural region. Voen.-med.zhur. no.7:40-43 J1 '57. (MIRA 11:1)
(EPIDEMIC HEMORRHAGIC FEVER
epidemiol. & etiol. (Rus))

SOLOMIN, N.N.

Some aspects of the dysentery problem in the light of the variability
of the causative agents. Zhur.mikrobiol.epid. i immun. 29
no.2:118-119 F '58. (MIRA 11:4)

(SHIGELLA DYSENTERIAE,
variability (Rus)

SOLOMIN, N. N., BELYAYEV, P. A., BEZHUKOV, B. M., BURGANSKIY, B. K.,
KAPLINSKIY, M. B. and MATS, A. S.

"Possible Vectors of Diseases with Natural Reservoirs in the Urals."

Tenth Conference on Parasitological Problems and Diseases with Natural
Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of
Sciences, USSR, Moscow-Leningrad, 1959.

Sverdlovsk

SOLOMON, N. N., BELYAYEV, P. A., BELYAYEV, V. M., BURGANSKIY, B. M.,
KIPINSKIY, M. B., KITS, A. S.

"Epidemiological characteristics of diseases with Natural Foci
in the Ural Mountains." p. 21

Desyatoye Soveshchaniye po parazitologicheskim problemam i
prirodnoochagovym boleznyam. 22-29 Okt'yabrya 1959 g. (Tenth Conference
on Parasitological Problems and Diseases with Natural Foci 22-29
October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences
USSR and Academy of Sciences USSR, No. 1 254pp.

SOLOMIN, N.N.; BURGANSKIY, B.Rh.

Characteristics of the etiological structure of current forms of
dysentery and their significance in the epidemiology and laboratory
diagnosis; author's abstract. Zhur.mikrobiol., epid. i immun. 30
no.12:111 D '59. (MIRA 13:5)

(DYSENTERY BACILLARY etiol.)

SOLOMIN, N.N.; PIONTKOVSKAYA, S.P.

Ectoparasites of rodents from a focus of hemorrhagic fever in the western part of the Ural Mountain region. Zool. zhur. 39 no.5:678-682 My '60. (MIRA 13:10)

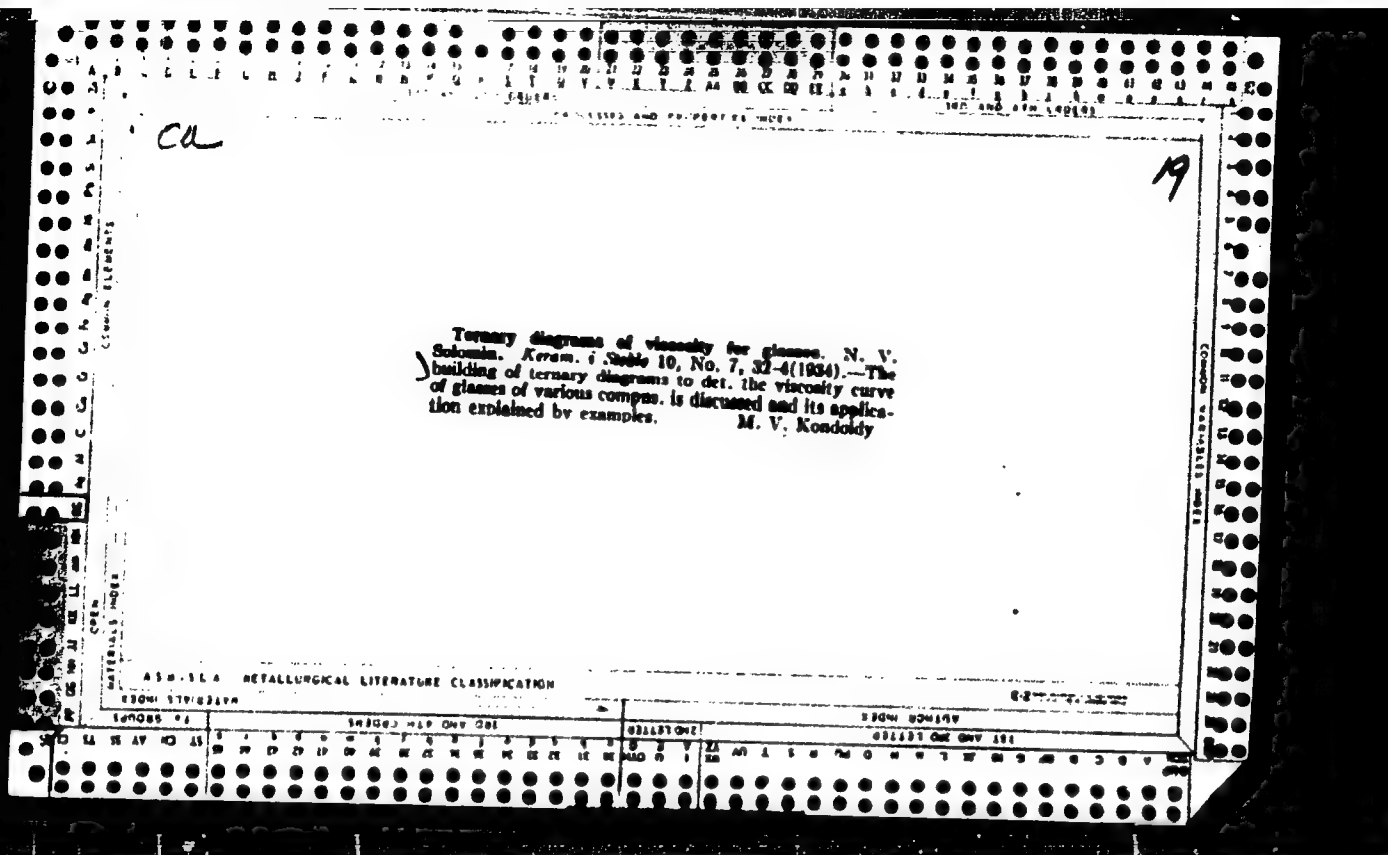
1. Sanitary-Epidemiological Detachment, and the Department of Infections of Natural Nidality, Institute of Epidemiology and Microbiology, U.S.S.R. Academy of Medical Sciences, Moscow.
(Kizner District--Rodents as carriers of diseases)
(Parasites--Rodents)

19

Handwritten: CN

Manganese oxide in glass melting. N. V. SOLOVYOV, *Keram. i Staklo* 8, No. 3, 28-30(1932).--MnO practically does not color glass. A series of glasses contg. up to 20% MnO and melted in the presence of a reducer were studied and their viscosities, softening temps, coeffs. of thermal expansion and sp. gra. were detd. MnO can replace alkalis in glass, as it diminishes the viscosity. The possibilities of using waste products of Mn ores for the glass industry are discussed. M. V. KONDOINOV

ASACSLA METALLURGICAL LITERATURE CLASSIFICATION



Corrosion properties of glasses in the system $\text{Li}_2\text{O}-\text{Na}_2\text{O}-\text{B}_2\text{O}_3$. N. V. Solomin. *J. Tech. Phys.* (U. S. S. R.) 6, 525-527 (1938). The thermal expansion of 6 ternary mixts. is measured between 20° and 100°. It decreases with increasing alkali content and on substituting Na^+ for Li^+ . The temp. at which the viscosity reaches 10^{10} poises rises with the ratios alkali/boron and Li/Na . J. J. B.

ASAC 31A METALLURGICAL LITERATURE CLASSIFICATION

19

The production of transparent quartz glass in an electric furnace with bar electrodes. M. V. ~~Moore~~, *Keram. i Stakl. 14*, No. 8, 21-4 (1968) ~~Chem. Abstr.~~, 1968, 1, 1224. Such furnaces have previously been used only for the production of nontransparent quartz glass. Expts. show it is possible to produce transparent quartz glass. One of the most important factors in the process is the difference in pressure between the space enclosed about the heating rod and the layer of quartz. M. G. Moore

ASB-514 METALLURGICAL LITERATURE CLASSIFICATION

1968-02 1968-02 1968-02 1968-02

A.E.S.

Class

Automatically annealed glass sheet. I. I. KITAJONOV-SKIL AND N. V. SALOMIN. Russ. 50,930, April 30, 1940.
32a. 30.—The glass sheet is made of three or more layers of glass having different coefficients of expansion. These layers are either drawn simultaneously from the melt or superimposed one upon the other. In the latter case, this is done at a temperature at which the respective layers are not M.Ho.

Use of cobalt ore for coloring glass. N. V. SUTOMIN, P. I. GINZBURG, AND L. V. POJMANIN. *Sobremennye Problemy Khimii*, 1940, No. 3, pp. 6-7; *Chem. Zvesti.*, 1940, II, 3531; *Chem. Abstr.*, 36, 3055 (1942).—Co ore from the Dashkesan deposit contains Co_2O_3 7.30, SiO_2 36.0, Al_2O_3 6.8, Fe_2O_3 26.9, CuO 1.1, Mn 0.1, MgO 4.4, CaO 7.3, $\text{Na}_2\text{O} + \text{K}_2\text{O}$ 0.8, S 3.9, and other substances (including As) 5.4%. The ore was ground fine, heated to 600-700° to volatilize S and As, and added to a glass batch containing SiO_2 74.0, CaO 8.8, MgO 3.6, and Na_2O 16.6%; the whole was fused at 1480°. A similar batch was prepared with pure CoO . The two glasses tested in a König-Martens spectrophotometer gave identical curves.

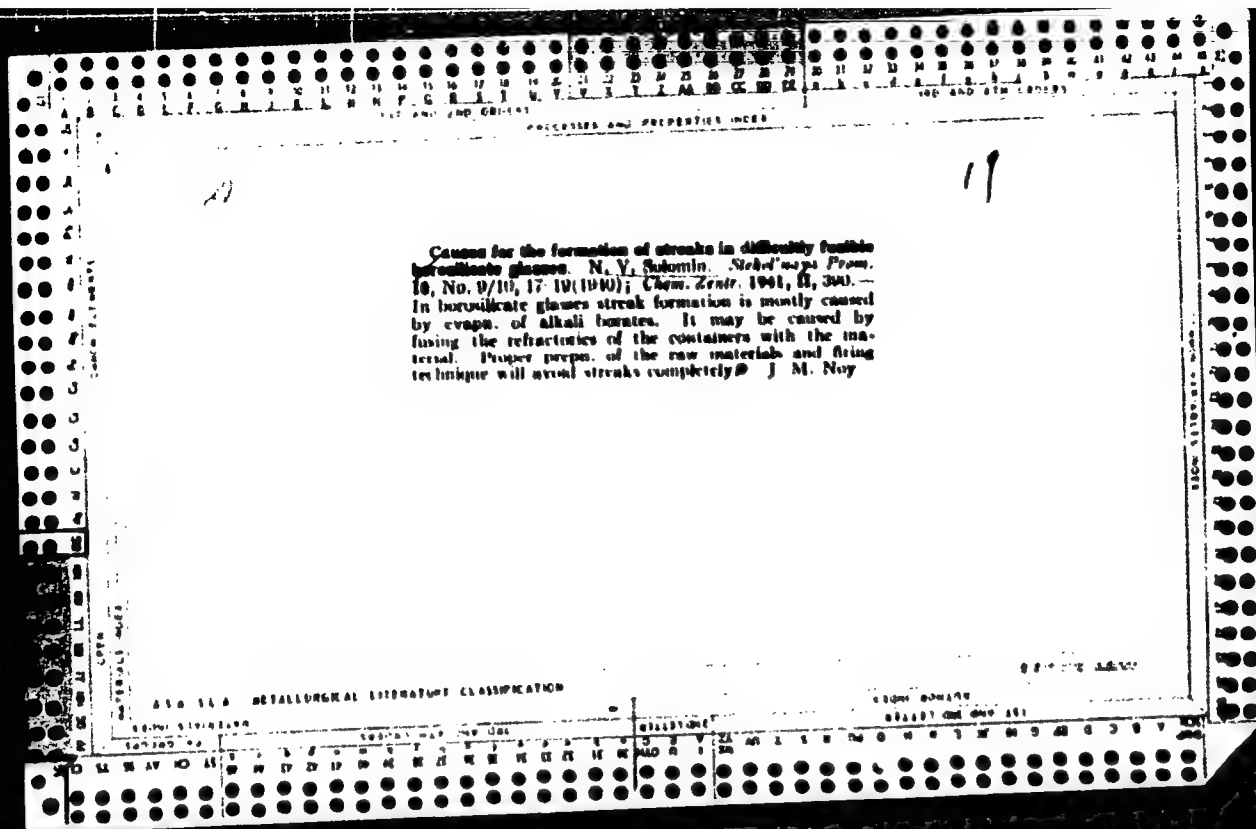
SOLOMIN, N.V.

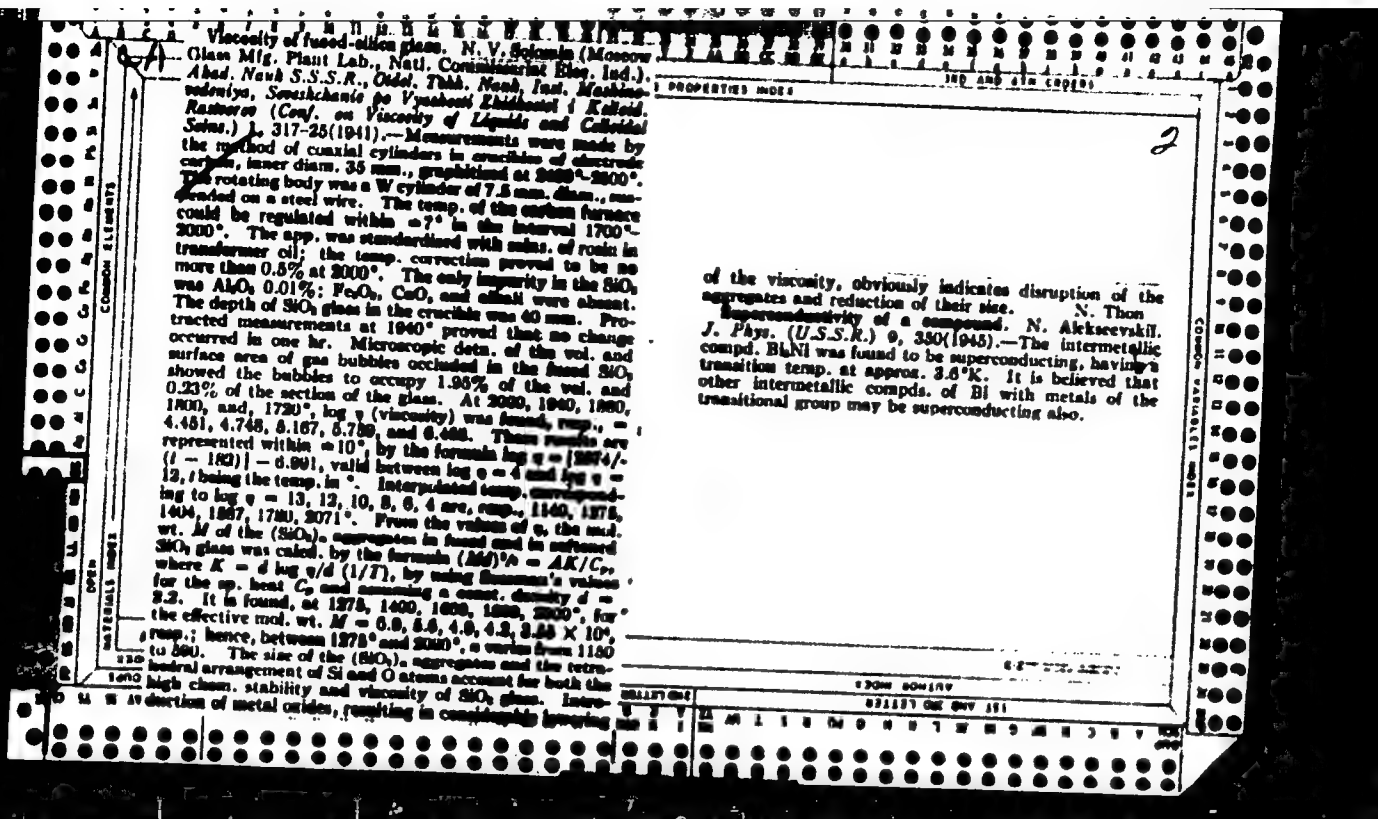
Laboratory of the Moscow Glass Works, People's Commissariat of Electric Power Plants and Electrical Industry, (1939)

"The Viscosity and Structure of Molten Quartz Glass."

Zhur. Fiz. Khim., Vo. 14, No.2, 1940.

The use of cobalt ore for coloring glass. N. V. Solov'ev, P. I. Glasberg and L. V. Poternik. *Sovetskaya Prom.*, 16, No. 8, 6-7(1940); *Chem. Zvest.* 1940, 11, 3531. Co ore from the Bashkirian deposit contains Co_2O_3 7.30, Cu_2O 36.0, Al_2O_3 26.9, Fe_2O_3 26.9, CuO 1.1, Mn 0.1, MgO 4.4, CaO 7.3, $\text{Na}_2\text{O} + \text{K}_2\text{O}$ 0.8, SiO_2 8.9 and other substances (including As) 6.4%. The ore was ground fine, heated to 600-700° in volatile B and A, added to a glass batch consisting of SiO_2 74.0, CaO 8.8, MgO 3.6 and Na_2O 16.0% and the whole fused at 1400°. A similar batch was prepared with pure CoO. The two glasses tested in a König-Martens spectrophotometer gave identical curves. M. Hrush





Solomin, N. V. DETERMINATION OF REFRACTORENESS OF CLAYS IN GLASS WORKS. *L'zhaya Prom.* 2 [1-2] 13-17 (1942) —A new method for determining the refractory properties of mixtures for glass pots and glassmelting furnaces is described. It consists in determining the viscosity at the desired temperature. The rectangular specimen is placed on 2 knife edge supports within a specially constructed furnace. The test piece can be either green or fired. The temperature is raised at a rate of 7° min. if the test piece was previously fired. When the test temperature is reached it is held for 10 min., then a weighed rod is lowered onto the test piece. The displacement of the rod as the test piece sags is determined by reading a graduated scale by means of a microscope, simultaneously turning the changes with a stopwatch. The viscosity is calculated from $V = 81.8 \rho^2 / \epsilon h^2$, where V is the viscosity, ρ is the load (the weight of the rod) in gm., ϵ is the distance between the test piece support, s is the time in seconds it took the rod to descend l cm., ϵ and h are the width and height of the test piece. The apparatus is described in detail.

1ST AND 2ND ORDER										3RD AND 4TH ORDER									
PROCESSES AND PROPERTIES INDEX																			
<p>CA</p> <p>A process of without Nicol prism [in the control of glass production]. N. V. Solomon. <i>L'optique</i> From. 2. No. 3/4, 21 (1942). A plate of 8 or 4 pieces of window glass is used as polarizer, the light is dispersed by a screen made of fine threads paper, and a pair of glass plates is used instead of a Nicol prism. The observations are made through a sheet of a mica whose thickness and angle of rotation are selected to give a bright pink color of the "1st order" with a crimson shade in the field of vision, most suitable for the control of the production of glass.</p> <p>W. R. Hearn</p>																			
<p>438.51.1 METALLURGICAL LITERATURE CLASSIFICATION</p>																			
10000 11000 12000 13000 14000 15000 16000 17000 18000 19000										20000 21000 22000 23000 24000 25000 26000 27000 28000 29000									
10000 11000 12000 13000 14000 15000 16000 17000 18000 19000										20000 21000 22000 23000 24000 25000 26000 27000 28000 29000									

1st AND 2nd LETTER																										3rd AND 4th LETTER																										5th GROUP									
AUTHOR INDEX																										MATERIALS INDEX																																			
<p><i>Solemin, N. V. Nivo CLAYS Legkaya Prom, 4</i> [10-11] 15-17 (1944) - Physical and mechanical properties of fire clays from Nivo District (U.S.S.R.) are given</p>																																																													

Evaluation of refractory clays for the glass industry.
R. L. PYVNER AND N. V. SOLOMIN. *Sbornik nauchnykh i Keram.
Prom.,* 1964, No. 9, pp. 18-18.—It is proposed that TiO₂
be reported separately from Al₂O₃ in chemical analyses and
that all technical stipulations no longer be based on the
sum of these oxides. Low-quality clays should be mixed
with better grades before use; the proportions and con-
ditions of using mixed batches should in each case be worked
out in the laboratory and checked on a commercial scale.
B.Z.K.

1ST AND 2ND GROUPS										3RD AND 4TH GROUPS									
PROCESSES AND PROPERTIES INDEX																			
CA										19									
<p>Preventing the crumbling of Dinas furnace roofs. N. V. Salomov. <i>Sokol'skiye i Karam. Prom.</i> 1944, No. 12, 8-12; <i>Ceram. Abstracts</i> 1946, 14 (in <i>J. Am. Ceram. Soc.</i> 31, No. 1).—The main causes of the crumbling are the growth and changes of the Dinas occurring under the influence of the fumes coming from the charge, especially a sulfate charge. For protection from the fumes, the Dinas should be coated with a mist, composed of 70 quartz powder, 25 glass powder not over 0.4 mm. in size, and 7% clay. This is made into a thick paste with water. The coating should be 2 to 3 mm. thick. Lab. tests with the mist, gave good results. It is now being given a long-term test in a tank furnace of an exptl. glass factory.</p> <p>B. Z. K.</p>																			
ASIA-ELA METALLURGICAL LITERATURE CLASSIFICATION																			
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1ST AND 2ND DEGREE										3RD AND 4TH DEGREE									
PROCESSES AND PROPERTIES INDEX																			
CA		<p>Viscosity of ceramic materials at high temperature. N. V. Solomina. <i>J. Tech. Phys. (U.S.S.R.)</i> 13, 802-72 (1945).—S. develops a theory of viscosity measurements for materials of high viscosity. For elongation and compression he develops the English equation modified by Lurie: $\eta = P/a \cdot 2\pi \cdot l$ where P = force, a = time, l = length, and q = area of the work piece. The equation of Trouton-Andrews for viscosity measurements by rotation of the sample is confirmed. Formulas are developed for the deformation of a sample has supported on 1 or 2 ends as a function of viscosity. The viscometer constructed by S. is based on a compression method; its construction is described. Viscosities of kaolin and different clays, which had been held at 1200° were measured at temps. between 1400 and 1600°. Anomalies of viscosity have been observed since the viscosity depends on the previous heat-treatment of the sample and the amt. of load used in the measurement. These anomalies are attributed to the formation of a cryst. phase. The viscosity in clays is reduced by oxides of Fe and of alkali metals, and by alk. earths.</p> <p>S. Pakswar</p>																	
<p>ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																			
1ST DEGREE										2ND DEGREE									
1ST DEGREE										2ND DEGREE									

SOLOMIN, N. V.

"High-Temperature Investigation of Ceramic Raw Materials and Refractories for the Glass Industry." Sub 15 Oct 47, All-Union Sci Res Inst of Mineral Raw Materials

Dissertations presented for degrees in science and engineering in Moscow in 1947

SO: Sum No. 457, 18 Apr 55